HONG KONG ASSOCIATION FOR BUSINESS EDUCATION

HONG KONG DIPLOMA OF SECONDARY EDUCATION EXAMINATION 2016/17

BUSINESS, ACCOUNTING AND FINANCIAL STUDIES MOCK EXAMINATION

PAPER 2A ACCOUNTING MODULE

SUGGESTED ANSWER

(a)

	Cash Book (Bank)									
	2016		\$	2016		\$				
	Dec 1	Balance b/f	5,000	Dec 5	Adam's Co	7,500	1/2			
1/2	Dec 28	Robert's Co	3,000	Dec 25	Rent	4,500	1/2			
1/2	Dec 31	Cash	7,000	Dec 31	Balance c/f	3,000				
			15,000		_	15,000	•			
(b)										
(0)			Cash Boo	ok (Bank)						
	2016		\$	2016		\$				
	Dec 31	Balance b/f	3,000	Dec 31	Electricity	2,920	1/2			
1/2	Dec 31	Luna's Co	4,200	Dec 31	Robert's Co	3,000	1/2			
			,	Dec 31	Balance c/f	1,280	1/2			
			<u>7,200</u>		-	7,200	•			
(c)										
(•)			Raymond	Wong Ltd.						
		Bank Reconcil	•	_	December 2016					
		Builk Recollen	iation Statem	ioni as at 5 i	\$	\$				
	Ralance	as per updated cas	h book		Ψ	1,280	1/2			
	Add: Unpresented cheque					4,500	1/2			
	1144. 01	ipresented eneque				5,780	72			
	Less: U1	ncredited items.				7,000	1/2			
	Balance as per bank statement					(1,220)	1/2			
	Bulunee	To Commission				<u>(:,==0)</u>	, 2			

<Total: 6 marks>

Question 2

(a)

The accounting concepts employed in the stated situations is going concern. (1 mark) It assumes that businesses will continue to operate in the foreseeable future and do not intend to wind up or curtail the scale of operation substantially. (1 mark)

(b)

The fitness equipment should value at \$280,000. (1 mark)

The accrued rental fee should be written off to zero. (1 mark)

<Total: 4 marks>

(a)

	Chocolate		Mango		Vanilla		
	\$	\$	\$	\$	\$	\$	
Selling price		90.00		80.00		70.00	
Less: Direct labour	20.00		15.00		10.00		
Direct materials	30.00		20.00		15.00		
Variable cost	10.00		7.50		5.00		
Variable marketing cost	<u>6.50</u>	<u>66.50</u>	<u>6.50</u>	<u>49.00</u>	<u>6.50</u>	<u>36.50</u>	
Contribution margin per unit		23.50		31.00		33.50	1/2(a)
Direct labour hour per unit		<u>0.4</u>		<u>0.3</u>		0.2	1/2(a)
Contribution per direct labour		<u>58.75</u>		103.33		<u>167.50</u>	1/2(a)
Ranking		3		2		1	1/2(a)

(b)

	Number of direct labour use	Number of unit produced	
Vanilla	50,000 * 0.2 = 10,000	50,000	1/2
Mango	25,000*0.3 = 7,500	25,000	1/2
Chocolate	20,000 - 10,000 - 7,500 = 2,500	6,250	1

<Total: 8marks>

Question 4

Allowance for doubtful accounts 2014 \$ 2014 \$ 1/2 Dec 31 Balance c/d 2,880 Dec 31 Profit and Loss 2,880 1 (\$40,000-\$4,000)*8% \$2,880 - (\$65,000 - \$10,000)*5% 2015 2015 $1\frac{1}{2}$ Dec 31 Profit and loss 130 Jan 1 Balance b/d 2,880 1/2 1/2 Dec 31 Balance c/d 2,750 2,880 2,880 2016 2016 2,950 Jan 1 1/2 Dec 31 Balance c/d Balance b/d 2,750 1/2 200 Dec 31 Profit and loss 1 (\$30,000-\$500)*10% - \$2,750 2,950 2,950 2017 2017 Balance b/d Jan 1 2,950

<Total: 6 marks>

(a)

Anna and Elsa Appropriation account for the year ended 31 December 2016

	·		\$	_
Net loss (\$17,233 + \$4,000-	\$1,000 - \$4,150 + \$3,113*)		(19,196)	3
Add: Interest on drawings:	Anna	800		1/2
	Elsa	375	1,175	1/2
		=	(18,021)	=
Balance of losses shared:	Anna (² / ₃)	(12,014)		1/2
	Elsa $(\frac{1}{3})$	(6,007)	(18,021)	1/2
	, ,			(5)

(\$16,600- \$4,150)*25% = \$3,113

Alternative answer:

Appropriation account \$ \$ 3 Adjusted net loss 19,196 Interest on drawings: Anna 800 1/2 <u>375</u> 1,175 Elsa 1/2 Share of loss: 12,014 Anna (3/3) 1/2 6,007 18,021 Elsa (1/3) 1/2 19,196 19,196 (5)

(b)		Reval	uation	
		\$		\$
1 Fittings (\$	55,200-\$1,796)*50%	1,702	Vans (16,600*120% - 9,337)	10,583 1
½ Inventory		3,000		
1/2 Allowance	e for doubtful accounts	1,750		
½ Capital	- Anna $(\frac{2}{3})$	2,754		
1/2	- Elsa $(\frac{1}{3})$	1,377		
	. ,	10,583		10,583
½ Capital	- Anna (³ / ₅)	2,071	Fittings	1,702 ½
1/2	- Rose $(^{2}/_{5})$	1,381	Allowance for doubtful accounts	1,750 ½
		<u>3,452</u>		<u>3,452</u>
				(6)

<Total: 11 marks>

Question 6

Ratio	2016	2015	Comments with a reason for the changes
	Prof	fitability	
Return on capital employed=	(\$271,280+\$12,000)	(\$292,110+\$15,000)	
Profit before interest and tax	\$1,044,790	\$1,015,110	
Total Capital	= 27.11% √	= 30.25% √	
Net Profit Margin=	\$271,280	\$292,110	• There was a drop of Net Profit Margin in
Net Profit	\$572,557	\$540,320	2016and it might be a result of a cut of
Sales	= 47.38% √	= 54.06% ✓	selling price or worsened cost control. 🗸
Dividend cover(times)=	\$271,280	\$292,110	
Profits after tax and Preference dividends	\$150,000	\$100,000	
Ordinary dividends paid and proposed	= 1.81 times ✓	= 2.92 times √	
	Lie	quidity	
Current ratio=	\$168,990	\$203,630	
Current assets	\$43,580	\$56,690	
Current liabilities	= 3.88:1✓	= 3.59:1 ✓	
Liquid ratio=	\$116,590	\$153,880	• Liquid ratio was similar as that in 2015 and
Liquid assets	\$43,580	\$56,690	it might be a result of idle resources kept or
Current liabilities	= 2.68:1 	= 2.71:1 <	extra liquid assets provided for likely
			obligations. ✓ ✓
	Asset n	nanagement	
Stock turnover period (days)=	(\$49,750+\$52,400)÷2 x 365	(\$55,180+\$49,750)÷2x365	• The ratio was improved in 2016 and it
(Opening + closing Inventories)÷2 x365	\$221,867	\$167,470	might be a result of better inventory control.
Cost of sales	= 84.03 days √	= 114.35 days √	✓✓
Average collection periods(days)=	\$46,540 x 365	\$85,570 x 365	• The ratio was improved in 2016 and it
Trade receivables x 365	\$572,557	\$540,320	might be a result of tightened credit
Sales	= 29.67 days √	= 57.80 days √	control. ✓ ✓
Total assets turnover=	\$572,557	\$545,320	
Sales	\$1,109,970	\$1,071,800	
Total assets	$= 0.52 \text{ times } (51.58\%) \checkmark$	$= 0.51 \text{ times } (50.88\%) \checkmark$	

Net profit for 2016 = \$323,680 - \$2,400 - \$50,000 = \$271,280

√=½ mark

Sales for 2016= \$622,557 - \$50,000 = \$572,557

Current assets for 2016 = \$221,390 - \$2,400 - \$50,000 = \$168,990

<Total: 12 marks>

(a)

54,000 units of air-conditioner is 90% capacity of the company.

100% capacity of the company = 54,000 units/90% = 60,000 units

Remaining capacity of the company = 10% (i.e. 6,000 units)

If the company accepts the special order of 6,500 units, she needs to give up the contribution margin of 500 units in the original production.

Contribution margin (in unit)

- = Original selling price Original variable cost
- = Original selling price-(Direct materials + Direct labour + Variable manufacturing overheads)
- = \$9,750 (\$3,000 + \$1,000 + \$1,000)
- = \$4,750

Relevant costs

	\$		\$
Direct materials	3,000	1/2	19,500,000
Direct labour	1,000	1/2	6,500,000
Variable manufacturing overheads	_ 1,000	1/2	6,500,000
Inspection cost	100	1/2	650,000
	5,100		
X 6,500 units	6,500		
	33,150,000		33,150,000
Contribution margin given up due to not enough capacity	2,375,000	1	2,375,000
$(500 \times \$4,750)$			
Total costs of the special order	35,525,000		35,525,000

Alternative answer:

	Accept the order			Not Accep	t the order
	\$	\$		\$	\$
Sales (\$5,500 x 6,500)		35,750,000			0
Less: Cost of goods sold					
Direct materials	19,500,000		1/2	0	
Direct labour	6,500,000		1/2	0	
Variable manufacturing overheads	6,500,000		1/2	0	
Inspection cost	650,000		1/2	0	
Contribution margin given up due to	2,375,000	35,525,000	1	0	0
not enough capacity (500 x \$4,750)					
Profit		225,000			0
Variable manufacturing overheads Inspection cost Contribution margin given up due to not enough capacity (500 x \$4,750)	6,500,000 650,000		1/2	0 0 0 0	0

Stark Industries should accept the offer because the overall profit after accept this order will be increased by \$225,000 (\$5,500*6,500 - \$35,525,000). (1)

(b)

		\$		Per Unit (\$)
Purchases price	= 54,000*\$5,900 =	318,600,000	1	5,900
Ordering, receiving and inspection cost	= <mark>54,000</mark> *\$300 =	16,200,000	1	300
1	-	334,800,000		6,200
Fixed cost remain	= <mark>54,000</mark> *\$1,500*30%=	24,300,000	1	450
Cost of purchase		359,100,000		6,650
Cost of production	= \$6,500* <mark>54,000</mark>	351,000,000		6,500

Alternative answer 1:

54,000 Units	Purchased from OEM Company					iced by idustries
	\$	\$		\$ \$		
Sales (\$9,750 x 54,000)		526,500,000		526,500,000		
Less: Cost of goods sold				351,000,000		
(\$6500x54,000)						
Purchases price	318,600,000		1			
Ordering, receiving and	16,200,000		1			
inspection cost						
Fixed cost remain	24,300,000	359,100,000	1			
Profit		167,400,000		175,500,00		

Alternative answer 2:

Per unit	Purchased from OEM Company			ced by dustries
	\$	\$		\$ \$
Sales (\$9,750 x 54,000)		9,750		9,750
Less: Cost of goods sold				6,500
Purchases price	5,900		1	
Ordering, receiving and	300		1	
inspection cost				
Fixed cost remain	450	6,650	1	
Profit		3,100		3,250

Stark Industries should produce the air-conditioner because the cost of purchase from OEM Company is higher by \$8,100,000. (1)

(c)

		\$	
Purchases price	= 54,000*\$5,900 =	318,600,000	
Ordering, receiving and inspection cost	= 54,000*\$300 =	16,200,000	
		334,800,000	
Fixed cost remain	= 54,000*\$1,500*30%=	24,300,000	
		359,100,000	
Less: Rental income		9,000,000	
Cost of purchase		<u>350,100,000</u>	1
Cost of production		<u>351,000,000</u>	

Alternative answer:

	Purchased from OEM Company			iced by ndustries
	\$	\$		\$ \$
Sales (\$9,750 x 54,000)		526,500,000		526,500,000
Less: Cost of goods sold				351,000,000
(\$6500x54,000)				
Purchases price	318,600,000			
Ordering, receiving and	16,200,000			
inspection cost				
Fixed cost remain	24,300,000			
Rental income	(9,000,000)	350,100,000	1	
Profit		176,400,000		175,500,00

Stark Industries should purchase the air-conditioner from OEM Company because the cost of purchases is lower by \$900,000. (1)

(d)

The reputation of the selected supplier is clearly a strong influence on the decision. (1)

The reliability of the supplier in meeting the required quality standard and in making deliveries on time. (1)

After sourcing out the production, will the supplier raise the price for subsequent orders? (1) (Any other reasonable answers are acceptable.)

<Total: 13 marks>

	Cas	sh	
	\$		\$
Bal b/f	1,000	Drawings	12,600
Trade receivable	80,800	Wages	54,000
		Carriage outwards	9,550
		General expenses	900
		Bank	3,750
		Bal c/f	1,000
	81,800		81,800
	D		
-	Ban \$	1K 	\$
Bal b/f	,	Trade payables	411,720
Cash		Rent and rates	21,500
Trade Receivables	-	Drawings Drawings	246,500
Equipment		General expenses	1,350
Equipment	700	Carriage inwards	10,000
		Equipment Equipment	50,000
		Bal c/f	70,390
	811,460		811,460
		<u> </u>	
	Trade Rec	eivables	
	\$		\$
Bal b/f	24,500	Bank	780,980
Sales	864,500	Cash	80,800
		Discounts allowed	4,020
		Bal c/f	23,200
	889,000	<u> </u>	889,000
	Trade Pa	ıvables	
	\$		\$
Bank	411,720	Bal b/f	10,800
Discounts received	3,080	Purchases	440,000
Bal c/f	36,000		,
	450,800		450,800
		<u>.</u>	
Di	-	Equipment	
	\$		\$
Equipment	35,000	Accumulated depreciation	12,600
		Bank	700
		P&L ~ loss on disposal	21,700
	450,800		450,800

Trial Balance As at 31 December 2015

As at 31 Decemb	JEI 2013	
	\$	\$
Equipment	70,000	
Fixtures	20,000	
Inventory	42,800	
Trade Receivable	24,500	
Trade Payable		10,800
Accrued rent		11,750
Prepaid water and electricity	400	
Accumulated depreciation – fixtures		4,000
Accumulated depreciation - equipment		25,200
Bank	26,030	
Cash	1,000	
Capital		132,980
	184,730	184,730

Nelson Brown

Income Statement for the year ended 31 December 2016

			\$	\$	
Sales				864,500	٧
Less:	Cost	of goods sold			
	Openi	ng inventory	42,800		•
	Add:	Purchases (\$13,000+\$440,000)	453,000		✓
			495,800		
	Less:	Closing inventory (\$495,800*3,300/14,200)	115,221		1
		Stock Loss (\$495,800*800/14,200)	27,932	352,647	,
Gross 1	profit			511,853	
Add:	Disco	unts received		3,080	1
				514,933	
Less:	Wages	S	54,000		
	Carria	ge outwards	9,550		
	Gener	ral expenses	900		•
	Stock	Loss (\$27,932/2)	13,966		•
	Allow	rance for doubtful debts (\$21,200X5%+\$2,000)	3,060		
	Disco	unt allowed	4,020		
	Depre	ciation: Fixtures (\$20,000*10%)	2,000		
		ciation: Equipment 35,000-\$7,000-\$5,600)*20%+\$50,000*20%]	14,480		•
	Dispo	sal loss	21,700		
	Rent (\$21,500 - \$11,750 + \$14,000)	23,750		
	Water	and electricity	1,200	148,626	•
Net pro	ofit			366,307	

Nelson Brown
Statement of Financial Position as at 31 December 2016

Statement of Financial Losition as at 51				
Non-current Assets	\$	\$	\$	
Fixtures at cost		20,000		•
Less: Accumulated depreciation		6,000	14,000	
Equipment at cost		85,000		
Less: Accumulated depreciation		27,080	57,920	
			71,920	
Current Assets				
Inventory		115,221		
Trade receivables	23,200			
Less: Allowance for doubtful debts	3,060	20,140		
Prepayment and other receivables (\$550+\$13,966)		14,516		
Bank		70,390		
Cash		1,000		
		221,267		
Less: Current Liabilities				
Trade Payables	36,000			
Accrued expenses and other payables				
(\$14,000+\$3,000)	17,000	53,000	168,267	~
			240,187	
Representing:				
Capital				
Balance at 1 January 2016			132,980	
Add: Net profit for the year			366,307	
			499,287	
Less: Drawings (\$12,600+246,500)			259,100	
			240,187	
				(

(c) Subtotal: 3 marks
Item 3 – Matching ✓✓

Item 4- Going Concern✓✓

Item 5- Prudence✓✓

√=½ mark

<Total: 20 marks>

(a)

Master	Limited	
come Statement for the y	ear ended 31	December2016

Income Statement for the year	ear ended 31 Dec	cember2016		
	\$	\$	\$	
Sales (\$4,430,000 – \$40,000)			4,390,000	1/2
Less: Returns inwards			76,500	1/2
			4,313,500	
Less: Cost of goods sold				
Opening inventory		136,000		$\frac{1}{2}$
Add: Purchases	3,530,000			1/2
Less: Returns outwards	77,800	3,452,200		$\frac{1}{2}$
		3,588,200		
Less: Inventory loss		119,400		1/2
Closing inventory		18,000	3,450,800	1/2
Gross profit (\$4,313,500*1/5)			862,700	1
Add: Other revenue			600,000	1/2
			1,462,700	
Less: Expenses				
Administrative expenses				
(\$178,000 + \$232,000 + \$183,104 + \$119)	9,400)	712,504		11/2
Distribution expenses				
(\$101,000 + (\$1,477,000 * 5% - \$42,000)	132,850		1
Finance costs (\$142,000 + \$6,000)		148,000	993,354	1
Profit before tax			469,346	1/2
Taxation			55,000	1/2
Profit after tax			414,346	1/2
		_		(10)

(b)

Master Limited
Statement of financial position as at 31 December 2016

ASSETS		
		Net book
Non-current assets		value
Office and and founition		1 200 000
Office equipment and furniture Motor vehicles		1,399,000
Motor venicles		732,416
		2,131,416
Current assets		
Inventory	18,000	
Trade receivables	1,403,150	
Cash at bank	1,626,000	3,047,150
		5,178,566
EQUITY AND LIABILIIES	_	
1 600 000 Ordinary shares, fully paid		2,400,000
General reserve		755,000
Retained profits (\$600,920 + \$414,346 - \$50,000 - \$80,000)		885,266
	_	4,040,266
Non-current liabilities		
8% Debentures		300,000
Current liabilities		
Trade payables	662,300	
Accrued expenses	6,000	
Tax payable	55,000	
Subscription monies to be refunded	75,000	
Unearned revenue	40,000	838,300
		5,178,566
	_	

(c)

Realisation concept

It states that revenue should only be recognized when the earning process is substantially completed (i.e. the delivery of goods) and cash or receivable is reasonably certain to be received.

(1)

In this case, the goods are not yet delivered and the revenue should not be recognized. (1)

<Total: 20 marks>